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THE CHALLENGE"

Dress Cutting System.

INVENTED BY CALEB H. GRIFFIN.

The Last Great Improvement in Cutting Ladies' & Children's Garments.

Being an Improvement on seven previous Inventions, it is Warranted to Fit any Form.

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C. H. GRIFFIN and L. F. WISE,

SOLE PROPRIETORS,

BOSTON, - MASS.

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DIRECTIONS FOR TAKING THE MEASURES

BY

Caleb H. Griffin's

LATEST IMPROVEMENT

FOR

Cutting Ladies' and Children's Dresses and Cloaks.

—o—

Invented by Caleb H. Griffin, Boston, Mass., A. D. 1879.

First. *Slope of Shoulder.*— Pass the tape around the back of the neck down front of the arm; then straight across the back, placing the tape in the place where you want the under armsize. Put a pin in centre of back at top of tape measure from neck-bone to pin. This measure is used to give line D in the back, line F in front, and governs scales 1, 2, 3, and 4.

Second. *Length of Back.*—Measure from neck-bone to bottom of waist.

Third. *Width of Back.* — Measure from armpit to armpit across the back.

Fourth.—Arm size around the arm at tip of shoulder.

Fifth. *Length of Shoulder.* — Carry tape even with top of dress on the shoulder-seam to the tip of the shoulder. Note this measure, and if you wish it longer, add to the length what you choose.

Sixth. *Size of Waist.*—Measure around the waist as you wish it to be, use 1-2 of this measure in Scale 5.

Seventh.— Side seam; from armpit to hip.

Eighth. *Size of Chest.*— Measure around the largest part of the chest, close under the arms and across the back, as you wish the dress. For large, corpulent and fleshy ladies, cast off one inch; and for cloaks and all outside garments, take chest-measure one inch smaller than a dress.

Ninth. *Size of Neck.*— Measure around one-half of Neck, from Neck-bone to centre of Neck in front on the Swallow.

TENTH. *Heighth of Darts.*— Measure from back neck-bone to centre of chest.

ELEVENTH. *Length of Point.*— Measure from the centre of the throat to the bottom of the waist.

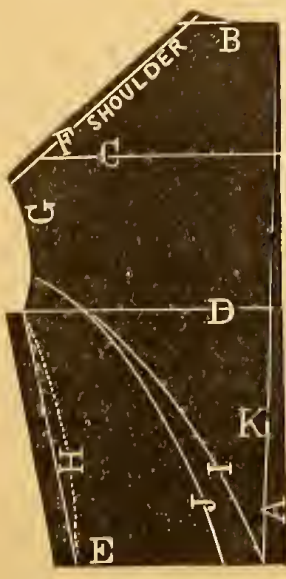
TWELFTH.—Hip measure; eight inches below the waist around the form; for loose measure, add six inches.

For Example, Take the Measure of a Lady.

No. 1. Slope of shoulder, 7 1-2 in. The slope of shoulder measure governs the width of the neck in the back in Scale No. 1. It governs the heighth of the neck in front in Scale No. 2. It governs the arm-size in Scale No. 3 and 4, one inch each side of centre.

1.	Slope of shoulder,	7 1-2 in.
2.	Length of waist,	16
3.	Width of back,	13
4.	Size of breast.	33
5.	Length of shoulder,	6 1-2
6.	Half Size of waist,	12 1-2
7.	Length of Side Seam,	9
8.	Size of chest,	36
9.	Half size of neck,	7
10.	Arm-size measure,	15
11.	Length of point,	14
12.	Hip measure,	50
13.	Length of skirt at back,	
14.	Length of skirt at side,	
15.	Length of skirt at front.	

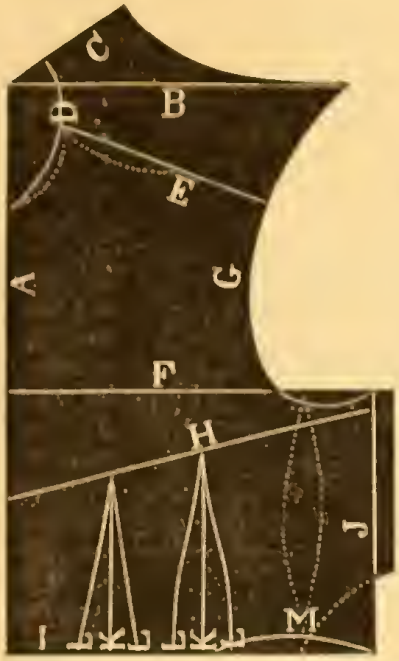
To Draft the Back.



Place square on paper, short arm to the left and from you, draw line A on outer edge of long arm of square, dot at 16 in. for length of waist; dot 7 1-2 in. for slope of shoulders; on line D, dot 3 3-4 in. for half slope of Shoulder or line C; draw line B on short arm of square, dot in Scale No. 1, 7 1-2; draw line F from side of back neck to line C, 6 1-2 in.; draw line F, 1-2 in. below line C, dot on line D 1-2 the width of the back. Draw line G from line F to dot on line D, for width of back. Draw line E for bottom of the waist at right angles with line A; from dot for length of waist, dot 12 1-2 in Scale 5, on line E. Draw line H from E to line D. Draw lines I, J and K from lines B, C and G, to line E. (See diagram of Back.)

To Draft the Front.

Place the square on paper, short arm to the left and from you, three inches from the edge of paper, with long arm of square 1 1-2 in. from edge of paper for lap. Draw line A on long arm of square; dot 7 1-2 in. Scale No. 2, for height of front neck, on short arm of square draw line B, dot on line B 4 in. from line A; at right angles with dot on line B dot 2 1-2 in.; draw line C from dot just made to corner of lines A and B; with the curve strike line D from line A to line C 6 3-4 in. (See diagram.) Make a dot on line C 3-8 in. inside of line D. To get front shoulder, lay line A of the back on line C of the front, with the corner of lines A and B of the back resting on dot on line C of the front; draw a line against line F of the back; across line D of the front, place corner of lines F and B of the back on line just made, across line D of the front; hold it there; place the terminus of lines D and H of the back on line B of the front, and make dot at the terminus of lines F and G of of the back for the corner of lines F and G of the front Draw line E from dot to dot; take out V under line E back of line D (as per dotted line of the diagram.) Dot per line F 7 1-2 in. from the corner of lines E and D, draw line from dot at right angles with line A. Lay the square with 18 in., on line A, which is one-half the size of chest; deduct half of the width of the back 6 1-2 in. from the outer end of the square, which gives you half size of the chest, dot there; place centre of Scales 3 and 4 on dot; now dot at 7 1-2 in. in Scales 3 and 4, which gives you outer and inner point of arm-size. For line H or top of darts, dot 2 in. under line F at centre of arm-size, 4 in. under line F on line A, draw line H from dot to dot; draw line I at right angles with line A 14 in. from the junction of lines D and A; draw line J at right angles from line F to outer point of arm-size to line I.



To get the darts, place 12 1-2 in. Scale 5 on line J, dot at corner of square for back point of back dart; for button space, dot in Scale 1, 7 1-2 from line A; dot at the centre, then at 3-8 in. each side for space between darts; dot at the centre of darts for line K. Terminus of lines K and H gives top of darts.

NOTES.—For fleshy and corpulent ladies, take space out of the back dart. To get length of side seam in front, take side seam of the back. To make the V over the hip, take Scale O, back form side, on the length of side seam, and draw a line from there to the corner of the back dart, and reverse for the V.

In making up silks have side seams straight, and take a V out under the arms in front, from the armpit to the bottom of the side seam.

For skirt or back, draw a line A from line E, eight inches; come out half-inch from line A, and draw a line from corner line E and A to the half-inch out, and as long as you wish the skirt. Give width to the back as you wish. For side body, draw a line from the corner of E and J, parallel with line A of the back, spring out from the corner of E and I. parallel with line A of the skirt, spring out from the corner of lines E and H, so as to give any sized skirt you wish.

To find the size of the skirt, take a measure eight inches below the hips around the form, very easy measure and then add six inches. Suppose your measure is forty-four inches, record it fifty. The back and side body, eight inches down, measures six and a half inches; one-half of fifty is twenty-five; deducting one-half the back from one-half the measure gives eighteen and a half inches, which we put in the front, making the whole measure, back and front, fifty inches, deducting the size of darts and French bias, so as to leave the garments fifty inches, eight inches down, running the darts below the waist eight inches down, half inch from line K, then as much further as you wish the length of the garment. Spring on the hip from the bottom of the side seam enough to give the size of the garment, eight inches down, fifty inches.

NAMES.

Slope of Shoulder.

Length of Waist.

Width of Back.

Size of Breast.

Length of Shoulder.

Size of Waist.

Length of Side Seam.

Size of Chest.

Half Size of Neck.

Arm Size Measure.

Length of Point.

Hip Measure.

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